

WHAT IS CLAIMED IS;

1       1. A seat position detection unit equipped with a slide  
2       mechanism that allows a seat to slide with respect to a floor,  
3       5      the seat position detection unit comprising:

4                a position sensor attached to one of a stationary member  
5       and a movable member that constitute the slide mechanism;

6                a detecting object, which is detected by the position  
7       sensor, and which is disposed at the other of the stationary  
8       10     member and the movable member; and

9                an mounting member, which mounts the stationary member to  
10      the floor, wherein

11               one of the position sensor and the detecting object that  
12       is attached to the stationary member is united with the mounting  
13       15     member.

1       2. A seat position detection unit according to claim 1, wherein

2               the position sensor is attached to one of the stationary  
3       member and the movable member through a connection member,  
4       20     wherein

5               the connection member has a protector which protects the  
6       position sensor.

1       3. A seat position detection unit according to claim 1, wherein

2       25      the position sensor is attached to the movable member  
3       through a connection member, which has a protector that

4           protects the position sensor, and wherein  
5                 the detecting object is connected to the stationary member  
6                 through the attaching member, and wherein  
7                 the surface of the connection member, the attaching member,  
8        5         and the detecting object are covered with a resin.

1           4. A seat position detection unit comprising:  
2                 a movable member, which is attached to a bottom of a seat  
3                 so that the movable member is located along the fore-and-rear  
4        10         directions with respect to the seat;  
5                 a stationary member, which is put together with the  
6                 movable member and allows the seat to slide along the stationary  
7                 member;  
8                 a mounting member, which mounts the stationary member to  
9        15         a floor;  
10                 a position sensor, which is attached to the movable  
11                 member; and  
12                 a detecting object, which is detected by the position  
13                 sensor, and is disposed at the stationary member,  
14        20         wherein the detecting object and the mounting member are  
15                 provided as a single piece.

1           5. A seat position detection unit according to claim 4, wherein  
2                 the position sensor is attached to the movable member  
3        25         through a connection member, and wherein  
4                 the connection member has a protector, which protects the

5 position sensor.

1 6. A seat position detection unit according to claim 5, wherein  
2 the stationary member is provided along the fore-and-rear  
3 5 directions of the seat, and wherein  
4 the mounting member includes

5 a first mounting member that mounts the stationary  
6 member to the floor at the fore-side end of the stationary  
7 member, and

8 10 a second mounting member that mounts the stationary  
9 member to the floor at the rear-side end of the stationary  
10 member, and wherein

11 the first mounting member and the detecting object are  
12 provided as a single piece.

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1 7. A seat position detection unit according to claim 6, wherein  
2 the surface of the mounting member and the connection  
3 member are covered with a resin.

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